

## ABSTRACT OF THE DISCLOSURE

A pilot channel transmission method is provided of transmitting a pilot channel through a downlink from a base station in a CDMA mobile communication system including base stations. Each base station is installed in one of a plurality of cells, uses a same frequency, and divides its channels using orthogonal codes uniquely assigned to the channels. Each of the cells is identified by multiplying a spreading code assigned to each base station by the channels spread by the orthogonal codes. In the pilot channel transmission method, when a plurality of orthogonal code sets, each of which includes a plurality of spreading codes assigned thereto, using by each base station, a pilot channel is assigned to each orthogonal code set, and at least one of the pilot channels is transmitted. The pilot channel can be provided with a symbol rate higher than the minimum symbol rate defined in the system.